

**PROJECT:** Midnite Mine Remediation**REPORT NO:** 2021-11**OWNER:** Newmont/Dawn Mining**OPERATOR:** Newmont/Dawn Mining**SUMMARY OF WORK ACTIVITIES OR EVENTS FOR THIS REPORTING PERIOD:**

This weekly report provides a summary of Midnite Mine Site (Site) remediation action (RA) construction activities, quality assurance (CQA), quality control (CQC) and engineering activities for the period June 4 – 10, 2021. The Site activities discussed in this weekly report include, but are not limited to: Site Health, Safety, and Security; Community Liaison, Project Meetings, Regulatory Oversight, Site Visitors; Site Mobilization; RA Activities; Project Documentation; and Site Inspections.

The project SharePoint site includes the Project documentation discussed in this report. Access to the project SharePoint site is available at the following link: (b) (6)

**SITE HEALTH, SAFETY, AND SECURITY**

MIDNITE MINE HEALTH & SAFETY SUMMARY: Reporting Period June 4 – 10, 2021			
FIRST AID INJURY	0	PROPERTY DAMAGE	0
MEDICALLY TREATED INJURY	0	NEAR MISS INCIDENT	0
RESTRICTED WORK INJURY	0	RADIATION PROTECTION PLAN (RPP) – ISSUES REPORTED	0
LOST TIME INJURY	0		
Comments: No incidents occurred during the reporting period.			

**COMMUNITY LIAISON**

- STOI notified Newmont the tribal council approved STOI resolution 2021-323 on June 7<sup>th</sup>. STOI resolution 2021-323 closes BIA#55 for construction of the water treatment plant effluent pipe line. The tribe circulated the resolution to the community via-email, Rawhide Press, Facebook, and the STOI portal.
- TERO Director notified Newmont on 7 June approving the Midnite Mine Infectious Disease Plan.
- Community notifications continue to be sent to Mr. Sherwood for site equipment deliveries and WTP Solids transport.

**PROJECT MEETINGS, REGULATORY OVERSIGHT, AND SITE VISITORS****Weekly Progress Meeting:**

The following stakeholders attended the Weekly Construction Progress meeting via a conference call on Wednesday, 09 June 2021 at 10:00;

- EPA
- Spokane Tribe of Indians
- Jacobs
- Army Corps of Engineers (USACE)
- Dawn Mining Company (DMC)/Newmont
- WME
- AJAX
- Stantec

#### Meeting Action Items:

- None

#### EPA Plan/Document Approvals:

- EPA approved the New Access Road and Effluent Pipeline Work Plan with conditions on 04 June.

#### Regulatory Site Visit(s):

- Mark Fillius, USACE, was on Site on 7-10 June.

## REMEDIAL WORK ACTIVITIES

#### Construction:

Newmont conducted the following activities during the week of June 4 – 10, 2021;

- Newmont excavated, hauled and placed low activity/low reactivity material into the Pit 4 Waste Containment Area (WCA) from the west side of the South Waste Rock Pile (SWRP), the Pit 4 Overburden Pile, and the South Construction Support Zone (CSZ).
- Newmont placed wood chips from the South CSZ in the demolition debris zone of the Pit 4 WCA and spread the chips in a 6-inch lift. CQC personnel verified that the wood chips were placed in conformance with the project specifications.
- Newmont installed additional riser sections of the Pit 4 Dewatering Risers.
- SLV Earthmovers continued crushing and screening material from the Hillside Waste Rock Pile (HSWRP) to produce Drain Gravel, Liner Bedding and Geomembrane Bedding Material. Newmont hauled these materials to stockpile locations designated in the 2021 Crushing and Stockpiling Work Plan (Stantec, 2021). Estimated quantities of materials produced are presented in Table 1.
- Collection of Quality Control samples from the crushing and screening operation continued with samples of Drain Gravel and Geomembrane Bedding Material submitted to Budinger and Associates for gradation analysis.
- Stantec performed Method 9 visible emissions observations at the crushing and screening operation on the HSWRP on 4 June. Visible dust from the crushing operation conformed with project requirements.
- Newmont completed water transfer from the east cell to the west cell of the South Pond. LLSI conducted leak location testing in the west cell of the South Pond on 8 June, identifying 3 potential leak locations. Newmont began removing water from the leak detection layer following completion of the leak location testing.
- Hi-Tech Rockfall continued installing anchors for drapery mesh and attenuator systems on the west side of the Pit 3.
- Stantec performed South Pond Embankment Stability inspection on 9 June. The embankment remains stable, movement monitoring points remain within tolerance, and water level in the South Pond Piezometer is below pumping level. Groundwater level in the South Pond piezometer was monitored daily and remains below action level.
- Stantec measured the distance between the Pit 4 tension crack monitoring pins. The distance between the pins remains unchanged.
- Newmont performed maintenance work on the site perimeter fence. Maintenance included removing trees that were leaning on the fence and closing gaps where wildlife had dug under the fence.
- Halme Construction began mobilizing equipment and supplies to the New Access Road for completion of the New Access Road and installation of the Water Treatment Plan Effluent Pipeline.

**Table 1 – 2021 Production Estimates**

Material	Reporting Period			Year-to-date			Annual % Complete
	Planned Production (yd³)	Estimated Volume¹ (yd³)	% of Planned	Planned Production (yd³)	Estimated Volume¹ (yd³)	% of Planned	
Haulage to Pit 4							
SWRP	17,919	26,180	146%	279,684	354,284	127%	47%
HSWRP	1,511	0	0%	19,468	2,828	15%	4%
Pit 4 Overburden	11,760	31,556	268%	68,320	179,900	263%	54%
South CSZ	0	4,060	--	0	4,536	--	91%
Total	31,191	61,796	198%	367,472	541,548	147%	47%
Aggregate Production							
Drain Gravel	8,500	6,580	77%	91,800	50,795	55%	17%
Liner Bedding	0	980	--	8,610	6,887	80%	74%
Geomembrane Bedding	8,500	8,008	94%	91,800	53,777	59%	14%
Total	17,000	15,568	92%	192,210	111,459	58%	16%

1 - Truck load assumed to be 27 yd<sup>3</sup>

### Stormwater Pollution Prevention Plan (SWPPP)

- Stantec performed the weekly SWPPP inspection on 10 June. No new BMPs or maintenance activities were identified.

### Spill Prevention, Control, and Countermeasure Activities (SPCC)

- None.

### Equipment Mobilized/Demobilized and Material Delivered

The following equipment was mobilized to the Site during this reporting period.

- Halme Construction loader.
- Halme Construction excavator.
- Halme Construction HDPE pipe welding machine.

The following equipment was demobilized from the Site during this reporting period.

- None.

All project owned non-road diesel equipment on Site is US-EPA Tier 4 compliant. On-site rental equipment and subsequent deliveries of rental equipment may be less than Tier 4 and will be assessed at the time of delivery.

### Materials:

The following material was delivered to the Site during this reporting period.

- HDPE pipe for Pit 3 Dewatering System and relocation of pipelines from Pit 3 to South Pond.

## CONSTRUCTION QUALITY ASSURANCE

### Dust Control and Monitoring

Seven dust monitors operated on site at the locations and for the time intervals listed in Table 2 below. There was one exceedance of the TSP action level (260 µg/m<sup>3</sup>) during this time-period.

The area for this exceedance centered around sampler ES-7 located in the area northeast of crushing and screening operations on Friday (4 June 2021) and occurred at the end of the day shift. This area is subject to haul truck traffic from Crushing/Screening Operations, the Geomembrane Liner Bedding Stockpile, Pit 4 Access Road, the High Road and Area 5. The alarm at ES-7 was due to dry dusty conditions combined with constant haul truck traffic on various fronts. The supervisor called for both water trucks to spray down all roads in and around this area. The duration of this exceedance was approximately 50 minutes with TSP concentrations ranging from 282 to 357 µg/m<sup>3</sup>.

**Table 2 - TSP Dust Monitoring Locations during reporting period June 4 – 10, 2021**

Monitor ID	Location Description	Start Date	Status						
			Fri	Sat	Sun	Mon	Tue	Wed	Thurs
ES-1 (stationary)	Midnite Mine Top of Pit 4	03/23/21	D/N			D/N	D/N	D/N	D/N
ES-2 (stationary)	Midnite Mine Southeast Boundary	03/23/21	D/N			D/N	D/N	D/N	D/N
ES-3 (stationary)	Midnite Mine West Boundary	03/23/21	D/N			D/N	D/N	D/N	D/N
ES-4 (roving)	Northeast Side of the SCSZ	04/16/21	D/N			D/N	D/N	D/N	D/N
ES-5 (roving)	Northeast of the Mid-SWRP	03/24/21	D/N			D/N	D/N	D/N	D/N
ES-6 (roving)	East of HSWRP above High Road	03/23/21	D/N			D/N	D/N	D/N	D/N
ES-7 (roving)	Northeast of HSWRP at Pit 4	03/23/21	D/N			D/N	D/N	D/N	D/N
ES-8 (stationary)	Northeast Rim of Pit 3	05/19/21	O			O	O	O	O
D=Day Shift (6:00 am to 4:30 pm) N=Night Shift (4:00 pm to 2:30 am) E=Environmental conditions (fog, smoke, pollen, heavy rain, etc.) O=Off - Special Circumstances * Equipment malfunction (Battery/Power Supply or Other)									

### Project Documentation

Project CQA-CQC Field Acceptance Forms, Engineering Change Notices (ECNs), Design Clarification Notices (DCNs), Non-Compliance Notifications (NCNs), Requests for Information (RFIs), Submittals, and Other Items received during this time-period are shown in the table below:

#### CQA Documentation

CQC-CQA Field Acceptance Forms			
Acceptance No.	Title	CQC-CQA Issue Date	
None			
Project DCNs			
DCN No.	Title	Submittal Date	EPA Response Date
None			
Project ECNs			

<b>ECN No.</b>	<b>Title</b>	<b>Submittal Date</b>	<b>EPA Response Date</b>
2021-01	Monitoring and Control of Phreatic Levels in the South Pond Embankment  Dewatering well pump test was conducted on Friday (5/28/2021).  EPA Comments – <b>Provide a summary report of findings with a final plan for dewatering. If dewatering is necessary, include a schedule for dewatering.</b>	3/19/2021	<b>Conditional Approval Received on 5/11/2021</b>
2021-02	Modifications to Pit 3 Underdrain and Dewatering Sumps	6/8/2021	<b>EPA - TBD</b>
<b>Notice of Non-Compliance</b>			
<b>NNC No. and Dates</b>	<b>Title/Description</b>	<b>CQA</b>	<b>CQA/EPA Response Date(s)</b>
NNC 2020-01 11/5/2020	South Pond Emergency Spillway Grout  Grout Placement at Supplemental GCS Completed on 5/12/2021.  Provide 28-day Compressive Strength Grout Results - due on 6/9/2021.  <b>Received Passing Compressive Strength Results on 6/11/2021.</b>	<b>Close-out Pending Sign-offs</b>	<b>NNC 2020-01 Close-out Pending Completion of the Supplemental GCS at GCS-04</b>
<b>Project RFIs</b>			
<b>RFI No.</b>	<b>Title</b>	<b>CQC Submittal Date</b>	<b>CQA/EPA Response Date(s)</b>
HC-2021-04	Fiber Optic Cable Materials – Connectors  <b>Stantec to Prepare Engineer's Input</b>	5/26/2021	<b>CQA – TBD EPA - TBD</b>
2021-04	Earthen Berm Pipe Anchor  <b>Stantec to Prepare Resubmittal Response</b>	5/26/2021	CQA 6/4/2021 <b>EPA – Disapproved 6/4/2021</b>
<b>Submittals</b>			
<b>Submittal No.</b>	<b>Title</b>	<b>CQC Submittal Date</b>	<b>CQA/EPA Response Date(s)</b>
01300-04	Rockfall Mitigation Material Information  <b>Waiting on Manufacturer's Certification Letters from Geobrugg and Williams Form w/r/t MTRs</b>	5/4/2021	CQA Acceptance 5/27/2021 <b>EPA - TBD</b>
HC-02160-01.1	Erosion Control Materials Effluent Pipeline  <b>Add Coir 700 Matting Thickness to Submittal – Uploaded to SharePoint</b>	5/20/2021	CQA Acceptance 5/20/2021 <b>EPA Approval 6/4/2021</b>
HC-02140-01.6	Proposed Dewatering Plan Effluent Pipeline  <b>Resubmit with Stabilization Work Plan – include section that identifies the period of record for Blue Creek historic data.</b>	5/24/2021	CQA Acceptance 5/25/2021 <b>EPA – Comments Received 6/3/2021</b>
HC-02831-01.3	Northwest Fence Product Submittal	5/24/2021	<b>CQA – TBD EPA - TBD</b>
02594-14	HDPE Welding Certificates – Mine Site	6/4/2021	CQA Acceptance 6/10/2021 <b>EPA - TBD</b>

02970-06.1	Revised Midnite Mine Seed Mix List for Interim Stabilization – SW Topsoil Stockpile  <i>Due to lack of availability – substitute different varieties of the same species.</i>	6/7/2021	<b>CQA – TBD EPA – TBD</b>
HC-01575-02.1	Addendum to SPCC – Fuel Tanks	6/10/2021	<b>CQA – TBD EPA – TBD</b>
<b>Other Items</b>			
<b>Item</b>	<b>Title</b>	<b>Comments</b>	
None			

Copies of the updated CQA Logs are located on the project SharePoint site under the 2021 CQA Folder.

### Site Inspections

Details regarding the four-phase CQA observation/inspection process for each definable work feature are summarized below and are further detailed in the daily CQC/CQA reports that are available on the project SharePoint site.

### Preparatory Inspections / Meetings

- Meeting with Tribal Cultural Resources Observers for the Effluent Pipeline

### Initial Phase Inspections

- Effluent Pipeline – Mobilization equipment inspections.

### Follow-up Phase and Ongoing Inspections

- Ongoing South Pond Liner Repairs (Northwest Linings) – West Cell.
- South Pond Leak Detection Survey (LLSI) – West Cell
- Hi-Tech Rockfall – Scaling, installing additional wire mesh curtain and preparing foundations for attenuator posts on the west side of Pit 3
- Checks on Mine Waste Placement in Pit 4 – Only low activity/low reactivity material from the SWRP, Middle Overburden Pile and South CSZ materials placed - no restrictions on placement.
- Periodic observations on placement of construction debris/trash in the Pit 4 WCA.
- Installation of Pit 4 Dewatering Risers – UDS and WRDS (280 and 240 feet total depth).

### Completion Inspections

- None

## THREE WEEK LOOKAHEAD SCHEDULE

A copy of the Three Week Lookahead Schedule is provided as Attachment A.

Report completed and submitted by:  <u>Andrew Liffing, P.E.</u> <u>Project Construction Director</u>
Attachments <ul style="list-style-type: none"> <li>• Attachment A – Midnite Mine 3 Week Lookahead Schedule</li> </ul>
Photos of pertinent items are provided below.





Figure 1 – Excavating low activity/low reactivity material at the SWRP.



Figure 2 – Excavating low activity/low reactivity material at the Pit 4 Overburden.





Figure 3 – Visible mine waste material being excavated from the CSZ.



Figure 4 – Progress visible mine waste removal from the CSZ.





Figure 5 – Chipped wood debris from the CSZ being placed in a 6" lift in the debris zone of Pit 4.



Figure 6 – Crushing and screening operations at the HSWRP.



Figure 7 – Leak Location Services at work in the west cell of the South Pond.

**ATTACHMENT A**

**MIDNITE MINE THREE WEEK LOOKAHEAD SCHEDULE**



Activity ID	Activity Name	RD	% Complete	Start	Finish			Jun 06						Jun 13						Jun 20						Jun 27						Jul 04					
						Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr				
17. Excavation and placement of materials into Pit #4		81d		29-Mar-21 A	05-Oct-21																																
17-1240	Excavate and Haul SWRP (Middle Zone Mining -All Phase A) Pit	25d	66%	29-Mar-21 A	16-Jul-21																																
17-1220	Excavate and Haul Pit 4 Overburden middle section	81d	38%	12-May-21 A	05-Oct-21																																
18. Complete Repair of South Pond		60d		23-Apr-21 A	03-Sep-21																																
18-1040	Support South Pond Pumping Station construction Commision So	11d	50%	23-Apr-21 A	25-Jun-21																																
18-1150	Commission the South Pond	45d	0%	02-Jul-21	03-Sep-21																																
20. Haul and place Cover material over the Pit#4 WCA		136d		29-Mar-21 A	23-May-22																																
20-1050	Haul Crushing and Screening Rejects Material to Pit#4	131d	4%	29-Mar-21 A	16-May-22																																
20-1060	Produce Geomembrane Bedding for Pit#4	131d	14%	29-Mar-21 A	16-May-22																																
20-1070	Haul Geomembrane Bedding to Stockpiles for Pit#4 Cap	136d	14%	29-Mar-21 A	23-May-22																																
26. Construct the new WTP and Pipeline for discharge		42d		03-Jun-21 A	10-Aug-21																																
26-1300	Haul mine waste materials to Pit#4	11d	91%	03-Jun-21 A	25-Jun-21																																
26-3070	Erosion Control BMP's & Site Controls	16d	5%	07-Jun-21 A	02-Jul-21																																
26-3090	Material Staging & Pipe Fusing	42d	5%	07-Jun-21 A	10-Aug-21																																
26-1270	Place erosion control Best Management Practices on New Stockpi	5d	5%	07-Jun-21 A	17-Jun-21																																
26-3080	Clearing & Grubbing	24d	0%	14-Jun-21	16-Jul-21																																
26-1290	Revegetate New Topsoil Stockpile	2d	0%	15-Jun-21	16-Jun-21																																
26-3100	HDD Pipe Segment - West End Road	5d	0%	22-Jun-21	28-Jun-21																																
26-3110	Begin at STA 14+63.53	0d	0%	22-Jun-21																																	
26-3120	Install MH at STA 34+55	7d	0%	22-Jun-21	30-Jun-21																																
26-3130	Progress to STA 50+00	7d	0%	30-Jun-21	09-Jul-21																																
27. Produce drain rock and other materials necessary for the sub-waste liner		132d		29-Mar-21 A	17-May-22																																
27-1000	Produce Drain Gravel for Pit 3	132d	17%	29-Mar-21 A	17-May-22																																
27-1030	Haul Drain Gravel, Stockpile (301k cy)	132d	17%	29-Mar-21 A	17-May-22																																
27-1060	Produce Liner Bedding for Pit 3	5d	75%	28-Apr-21 A	17-Jun-21																																
27-1070	Haul Liner bedding to Stockpile for Pit 3 (15,000 cy)	5d	75%	28-Apr-21 A	17-Jun-21																																
28. Initiate construct of the Pit#3 sump including initial construction of unde		22d		03-May-21 A	13-Jul-21																																
28-1250	Install rock fall protection	22d	60%	03-May-21 A	13-Jul-21																																